

**AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES
MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS**

1. (Currently amended) A method for controlling a linear motor having a primary movable machine part comprising windings and a secondary fixed machine part comprising permanent magnets ~~an electrical machine for modifying a position of a movable machine part~~, comprising the steps of:
 ~~detecting a position of~~ moving the movable machine part along a movement path which is partially covered; ~~[[and]]~~
 measuring a magnetic field produced by the permanent magnets at a position along the movement path; and
 ~~varying at least one~~ setting a position-dependent parameter of at least one member of a control unit ~~selected from the group consisting of a configurable controlling a speed regulator and a configurable additional regulator as a function of the or~~ position of the movable machine part based on the measured magnetic field.
2. (Currently amended) The method as claimed in claim 1, wherein the control unit comprises ~~additional regulator~~ is at least one regulator selected from the group consisting of position regulator, traction regulator, torque regulator, and pilot control.
3. (Canceled)
4. (Currently amended) The method as claimed in claim 1, wherein the position-dependent parameter is stored in a memory as ~~varying step includes the step of using~~ a function or a table.

5. (Currently amended) The method as claimed in claim 1, and further comprising wherein the detecting step includes the step of executing a reference run of the electrical machine to determine the position-dependent parameter which is dependent on the position of the movable machine part.
6. (Canceled)
7. (Currently amended) An apparatus for controlling a linear motor having a primary movable machine part comprising windings and a secondary fixed machine part comprising permanent magnets, said permanent magnets having a cover which modifies a magnetic field along a section of a movement path of the movable machine part ~~an electrical machine for modifying a position of a movable machine part~~, comprising:
 - a sensor for measuring the magnetic field along the movement path;
 - a memory unit for storing position-dependent parameters derived from the measured magnetic field; and
 - a control unit for controlling a system having a configurable speed or regulator and a configurable additional regulator, with the position of the movable machine part, being measurable, wherein at least one parameter of the speed regulator and/or at least one parameter of the additional regulator is variable as a function of the position of the machine part based on one or more of the position-dependent parameters stored in the memory unit.
8. (Canceled)
9. (Canceled)